

WHAT IS CLAIMED IS:

- 1 1. A method of modifying a memory in a battery unit of a mobile information
2 handling device comprising:
3 assigning a predetermined data word to an available address in memory;
4 receiving data in a non-reprogrammable section of the memory;
5 modifying a programmable section of the memory if the received data complies with
6 the predetermined data word; and
7 performing a checksum of registers in the memory.
- 1 2. The method of modifying a memory in a battery unit of a mobile information
2 handling device of claim 1 further comprising:
3 multiplexing the received data with a control signal before the non-programmable
4 section of the memory receives the data.
- 1 3. The method of modifying a memory in a battery unit of a mobile information
2 handling device of claim 1 further comprising:
3 performing additional security measures prior to modifying the programmable section
4 of the memory.
- 1 4. The method of modifying a memory in a battery unit of a mobile information
2 handling device of claim 2 further comprising:
3 performing additional security measures prior to modifying the programmable section
4 of the memory.
- 1 5. The method of modifying a memory in a battery unit of a mobile information
2 handling device of claim 1 further comprising:
3 controlling sent data from a firmware control hub in the mobile information handling
4 device.

6. The method of modifying a memory in a battery unit of a mobile information handling device of claim 2 further comprising:
controlling sent data from a firmware control hub in the mobile information handling device.

7. The method of modifying a memory in a battery unit of a mobile information handling device of claim 3 further comprising:
controlling sent data from a firmware control hub in the mobile information handling device.

8. The method of modifying a memory in a battery unit of a mobile information handling device of claim 1 wherein data is transmitted along a system management bus.

9. The method of modifying a memory in a battery unit of a mobile information handling device of claim 2 wherein data is transmitted along a system management bus.

10. The method of modifying a memory in a battery unit of a mobile information handling device of claim 3 wherein data is transmitted along a system management bus.

11. The method of modifying a memory in a battery unit of a mobile information handling device of claim 4 wherein data is transmitted along a system management bus.

12. The method of modifying a memory in a battery unit of a mobile information handling device of claim 5 wherein data is transmitted along a system management bus.

13. The method of modifying a memory in a battery unit of a mobile information handling device of claim 6 wherein data is transmitted along a system management bus.

14. The method of modifying a memory in a battery unit of a mobile information handling device of claim 7 wherein data is transmitted along a system management bus.

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15. A mobile information handling device wherein a memory in a battery unit powering the mobile information handling device is reprogrammed comprising:

- a processor;
- a computer readable medium coupled to the processor; and
- computer code, encoded in the computer readable medium configured to cause the processor to:
 - assign a predetermined data word to an available address in memory;
 - receive data in a non-reprogrammable section of the memory;
 - modify a programmable section of the memory if the received data complies with the predetermined data word; and
 - perform a checksum of registers in the memory.

16. The mobile information handling device of claim 15 wherein the processor further:

- multiplexes the received data with a control signal before the non-programmable section of the memory receives the data.

17. The mobile information handling device of claim 15 wherein the processor further:

- performs additional security measures prior to modifying the programmable section of the memory.

18. The mobile information handling device of claim 16 wherein the processor further:

- performs additional security measures prior to modifying the programmable section of the memory.

19. The mobile information handling device of claim 16 wherein a firmware control hub in the mobile information handling device controls sent data.

20. The mobile information handling device of claim 17 wherein a firmware control hub in the mobile information handling device controls sent data.

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1 21. The mobile information handling device of claim 18 wherein a firmware
2 control hub in the mobile information handling device controls sent data.

1 22. The mobile information handling device of claim 15 wherein data is
2 transmitted along a system management bus.

1 23. The mobile information handling device of claim 16 wherein data is
2 transmitted along a system management bus.

1 24. The mobile information handling device of claim 17 wherein data is
2 transmitted along a system management bus.

1 25. The mobile information handling device of claim 18 wherein data is
2 transmitted along a system management bus.

1 26. The mobile information handling device of claim 19 wherein data is
2 transmitted along a system management bus.

1 27. The mobile information handling device of claim 20 wherein data is
2 transmitted along a system management bus.

1 28. The mobile information handling device of claim 21 wherein data is
2 transmitted along a system management bus.

1 29. An apparatus to modify a memory in a battery unit of a mobile information
2 handling device comprised of:

3 means for assigning a predetermined data word to an available address in memory;

4 means for receiving data in a non-reprogrammable section of the memory;

5 means for modifying a programmable section of the memory if the received data

6 complies with the predetermined data word; and

7 means for performing a checksum of registers in the memory.

1 30. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 29 further comprised of:

3 means for multiplexing the received data with a control signal before the non-
4 programmable section of the memory receives the data.

1 31. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 29 further comprised of:

3 means for performing additional security measures prior to modifying the
4 programmable section of the memory.

1 32. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 30 further comprised of:

3 means for performing additional security measures prior to modifying the
4 programmable section of the memory.

1 33. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 29 further comprised of:

3 means for controlling sent data from a firmware control hub in the mobile information
4 handling device.

1 34. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 30 further comprised of:

3 means for controlling sent data from a firmware control hub in the mobile information
4 handling device.

1 35. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 31 further comprised of:

3 means for controlling sent data from a firmware control hub in the mobile information
4 handling device.

1 36. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 29 wherein data is transmitted along a system management bus.

1 37. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 30 wherein data is transmitted along a system management bus.

1 38. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 31 wherein data is transmitted along a system management bus.

1 39. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 32 wherein data is transmitted along a system management bus.

1 40. The apparatus to modify a memory in a battery unit of a mobile information
2 handling device of claim 33 wherein data is transmitted along a system management bus.

1 41. The method of modifying a memory in a battery unit of a mobile information
2 handling device of claim 34 wherein data is transmitted along a system management bus.

1 42. The method of modifying a memory in a battery unit of a mobile information
2 handling device of claim 35 wherein data is transmitted along a system management bus.

1 43. A computer program product that modifies a memory in a battery unit of a
2 mobile information handling device comprising:
3 a first set of instructions to assign a predetermined data word to an available address
4 in memory;
5 a second set of instructions to receive data in a non-reprogrammable section of the
6 memory;
7 a third set of instructions to modify a programmable section of the memory if the
8 received data complies with the predetermined data word; and
9 a fourth set of instructions to perform a checksum of registers in the memory.

1 44. The computer program product of claim 43 further comprising:
2 a fifth set of instructions to multiplex the received data with a control signal before
3 the non-programmable section of the memory receives the data.

1 45. The computer program product of claim 43 further comprising:
2 a sixth set of instructions to perform additional security measures prior to
3 modifying the programmable section of the memory.

1 46. The computer program product of claim 44 further comprising:
2 a sixth set of instructions to perform additional security measures prior to
3 modifying the programmable section of the memory.

1 47. The computer program product of claim 43 further comprising:
2 a seventh set of instructions to control sent data from a firmware control hub
3 in the mobile information handling device.

1 48. The computer program product of claim 44 further comprising:
2 a seventh set of instructions to control sent data from a firmware control hub
3 in the mobile information handling device.

1 49. The computer program product of claim 45 further comprising:
2 a seventh set of instructions to control sent data from a firmware control hub
3 in the mobile information handling device.

1 50. The computer program product of claim 42 wherein data is transmitted along a
2 system management bus.

1 51. The computer program product of claim 43 wherein data is transmitted along a
2 system management bus.

1 52. The computer program product of claim 44 wherein data is transmitted along a
2 system management bus.

1 53. The computer program product of claim 45 wherein data is transmitted along a
2 system management bus.

1 54. The computer program product of claim 46 wherein data is transmitted along a
2 system management bus.

1 55. The computer program product of claim 47 wherein data is transmitted along a
2 system management bus.

1 56. The computer program product of claim 48 wherein data is transmitted along a
2 system management bus.

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